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**METHODS FOR CANCER PROGNOSIS AND SCREENING**  
**ANTIPROLIFERATIVE AGENTS**

**Abstract**

5       The invention provides prognostic methods which comprise determining the  
level of expression of the gene *c-fyn*, or the level of activated STAT-3 protein.  
Because the relative level of *c-fyn* expression and level of activated STAT-3 protein  
correlate with the presence of malignant potential and therefore patient prognosis,  
these markers may be used to make treatment decisions, to predict patient outcome,  
and to predict the risk of cancer in disease-free individuals. The invention further  
10       provides a method for identifying anticancer drugs in which inhibitors of cell  
proliferation are identified as inhibitors of Src-mediated STAT phosphorylation.

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